

Claims

1. A ferrule holder for holding a ferrule in an optical ferrule-attached fiber when the adjustment of optical axis in said optical ferrule-attached fiber to be optically coupled with an optical part is to be performed, said ferrule holder being characterized by a pair of pinching members for pinching the side of said ferrule through a line contact relatively short in the longitudinal direction of the ferrule or a point contact.

2. The ferrule holder according to claim 1, characterized by a further pair of pinching members for pinching said ferrule through a line contact relatively long in the longitudinal direction of the ferrule.

3. The ferrule holder according to claim 2, characterized by that said two pairs of pinching members are formed integrally in one member.

4. The ferrule holder according to claim 1, characterized by that the side of the ferrule is pinched at at least two locations through the line contact relatively short in the longitudinal direction of the ferrule or the point contact.

5. The ferrule holder according to claim 1, characterized by that said relatively short line contact is equal to or longer than 0.001 mm and less than 1 mm.

6. A ferrule holder comprising a pair of pinching members for pinching a ferrule in a optical ferrule-attached fiber to be optically coupled with an optical part when the adjustment of optical axis in the optical

ferrule-attached fiber is to be performed, said ferrule holder being characterized by that each of said pair of pinching members includes a pinching groove formed therein and extending along the axis of said ferrule.

7. The ferrule holder according to claim 6, characterized by that said pinching grooves are formed to provide a symmetric configuration about the axis of said ferrule.

8. The ferrule holder according to claim 1, characterized by that at least one of said pinching members includes measuring means for measuring the spacing between said pair of pinching members.

9. A method of making a semiconductor laser module, said semiconductor laser module comprising a semiconductor laser element and an optical ferrule-attached fiber for receiving a laser beam emitted from the semiconductor laser element, said method being characterized by a step of performing the adjustment of optical axis in said optical ferrule-attached fiber while pinching the side of said ferrule through a line contact relatively short in the longitudinal direction of the ferrule or a point contact.

10. A method of making a semiconductor laser module, said semiconductor laser module comprising a semiconductor laser element and an optical ferrule-attached fiber for receiving a laser beam emitted from the semiconductor laser element, said method being characterized by a first step of performing the adjustment of optical axis in the optical ferrule-attached fiber while pinching the side of said ferrule at at least two locations through a line contact relatively long or short in the longitudinal direction of the ferrule or a point contact, and a second step of performing

the adjustment of optical axis in said optical ferrule-attached fiber while pinching the side of said ferrule through a line contact relatively short in the longitudinal direction of the ferrule or a point contact.

11. A method of making a semiconductor laser module, said semiconductor laser module comprising a semiconductor laser element and an optical ferrule-attached fiber for receiving a laser beam emitted from the semiconductor laser element, said method being characterized by a step of performing the adjustment of optical axis in said optical ferrule-attached fiber while pinching the side of said ferrule by and between pinching grooves formed by a pair of pinching members in a ferrule holder.

12. The method of making a semiconductor laser module according to claim 11, characterized by a step of performing the adjustment of optical axis in said optical ferrule-attached fiber while pinching the side of said ferrule in a swingable manner when said pair of pinching members are moved away from each other with a predetermined spacing.

13. The method of making a semiconductor laser module according to claim 11, characterized by that the adjustment of optical axis in said optical ferrule-attached fiber is performed while pinching the side of said ferrule by and between the pinching grooves of the pair of pinching members in the ferrule holder in a non-swingable manner.

14. The ferrule holder according to claim 9 for holding a semiconductor laser module, said ferrule holder being characterized by that it is adapted to hold a ferrule in a optical ferrule-attached fiber when the adjustment of optical axis in the optical ferrule-attached fiber is to be

performed before the optical ferrule-attached fiber is optically coupled with an optical part, said ferrule holder having a pair of pinching members for pinching the side of said ferrule through a line contact relatively short in the longitudinal direction of the ferrule or a point contact.

15. A method of making a semiconductor laser module, characterized by the steps of:

fixedly mounting a semiconductor laser element on a base;

fixedly mounting a cooling device in a package;

fixedly mounting said base on said cooling device;

introducing an optical ferrule-attached fiber into the package through an opening formed in said package through the side thereof;

performing the adjustment of optical axis in said optical ferrule-attached fiber using a ferrule holder which has a pair of pinching members for pinching the side of said ferrule through a line contact relatively short in the longitudinal direction of the ferrule or a point contact, said optical ferrule-attached fiber being fixed to said base after the adjustment of optical axis;

fixedly mounting said optical ferrule-attached fiber on the side of the package within said opening in said package; and

air-tightly sealing said package.